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Theo Ungerer, Borut Robić, Jurij Šilc

March 2003 **Computing Surveys (CSUR)**, Volume 35 Issue 1**Publisher:** ACM [Request Permissions](#)Full text available: Pdf (920.16 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [ind. terms](#)**Bibliometrics:** Downloads (6 Weeks): 63, Downloads (12 Months): 486, Citation Count: 18

Hardware multithreading is becoming a generally applied technique in the next generation of microprocessors. Several multithreaded processors are announced by industry or already into production in the areas of high-performance microprocessors, media, ...

**Keywords:** Blocked multithreading, interleaved multithreading, simultaneous multithreading

**2** [On-demand multicast routing protocol in multihop wireless mobile networks](#)

Sung Ju Lee, William Su, Mario Gerla

December 2002 **Mobile Networks and Applications**, Volume 7 Issue 6**Publisher:** Kluwer Academic PublishersFull text available: Pdf (248.93 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [ind. terms](#)**Bibliometrics:** Downloads (6 Weeks): 18, Downloads (12 Months): 160, Citation Count: 37

An ad hoc network is a dynamically reconfigurable wireless network with no fixed infrastructure or central administration. Each host is mobile and must act as a router. Routing and multicasting protocols in ad hoc networks are faced with the challenge ...

**Keywords:** ad hoc networks, mobile computing, multicast, routing

**3** [An efficient packet sensing MAC protocol for wireless networks](#)

Andrew Muir, J. J. Garcia-Luna-Aceves

August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2**Publisher:** Kluwer Academic PublishersFull text available: Pdf (641.36 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [ind. terms](#)**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 14, Citation Count: 3

The Group Allocation Multiple Access with Packet-Sensing (GAMA-PS) protocol for scheduling real-time and datagram traffic in a wireless LAN is specified and analyzed. It maintains a dynamically-sized cycle that changes in length depending on the amount

#### 4 [Using structural characteristics for autonomous operation](#)



Carlos Baquero, Francisco Moura

October 1999 **SI GOPS Operating Systems Review**, Volume 33 Issue 4

**Publisher:** ACM

Full text available: [Pdf](#) (636.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 12, Citation Count: 0

The majority of current mobile computing systems operate either in conjunction with a central network by some form of weak connectivity or tend to operate in total isolation and perform sporadic synchronization with a backup or a central network. These ...

**Keywords:** conflict resolution, mobile computing, replication

#### 5 [Data management support for asynchronous groupware](#)



Nuno Preguiça, J. Legatheaux Martins, Henrique Domingos, Sérgio Duarte

December 2000 **CSCW '00: Proceedings of the 2000 ACM conference on Computer support cooperative work**

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf](#) (190.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 38, Citation Count: 3

In asynchronous collaborative applications, users usually collaborate accessing and modifying shared information independently. We have designed and implemented a replicated object store to support such applications in distributed environments that include ...

**Keywords:** asynchronous groupware, awareness, development support, mobile computing, object framework

#### 6 [Power minimization in IC design: principles and applications](#)



Massoud Pedram

January 1996 **Transactions on Design Automation of Electronic Systems (TODAES)**

Volume 1 Issue 1

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf](#) (550.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 60, Downloads (12 Months): 390, Citation Count: 89

Low power has emerged as a principal theme in today's electronics industry. The need low power has caused a major paradigm shift in which power dissipation is as important performance and area. This article presents an in-depth survey of CAD methodologies

**Keywords:** CMOS circuits, adiabatic circuits, computer-aided design of VLSI, dynamic

power dissipation, energy-delay product, gated clocks, layout, low power layout, low power synthesis, lower-power design, power analysis and estimation, power management, power minimization and management, probabilistic analysis, silicon-on-insulator technology, statistical sampling, switched capacitance, switching activity, symbolic simulation, synthesis, system design

## 7 Consistency in a partitioned network: a survey



Susan B. Davidson, Hector Garcia-Molina, Dale Skeen

September 1985 **Computing Surveys (CSUR)**, Volume 17 Issue 3

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf \(3.20 MB\)](#) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 155, Citation Count: 113

Recently, several strategies have been proposed for transaction processing in partitioned distributed database systems with replicated data. These strategies are surveyed in light of the competing goals of maintaining correctness and achieving high availability. ...

## 8 Dynamic XML documents with distribution and replication



Serge Abiteboul, Angela Bonifati, Grégory Cobena, Ioana Manolescu, Tova Milo

June 2003 **SIGMOD '03: Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf \(209.06 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 82, Citation Count: 37

The advent of XML as a universal exchange format, and of Web services as a basis for distributed computing, has fostered the apparition of a new class of documents: *dynamic XML documents*. These are XML documents where some data is given explicitly ...

## 9 An algebraic approach to file synchronization



Norman Ramsey, Előd Csirmaz

September 2001 **ESEC/ FSE-9: Proceedings of the 8th European software engineering conference held jointly with 9th ACM SIGSOFT international symposium on Foundations of software engineering**

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf \(301.78 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 40, Citation Count: 3

A *file synchronizer* restores consistency after multiple replicas of a filesystem have been changed independently. We present an algebra for reasoning about operations on filesystems and show that it is sound and complete with respect to a simple ...

Also published in:

September 2001 **SIGSOFT Software Engineering Notes** Volume 26 Issue 5



## 10 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **CASCON '97: Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

**Publisher:** IBM PressFull text available:  Pdf (4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 40, Downloads (12 Months): 360, Citation Count: 0

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event ...

**11** [Automatic modeling of file system workloads using two-level arrival processes](#) Peter P. Ware, Thomas W. Page, Jr., Barry L. NelsonJuly 1998 **Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 3**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (220.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 37, Citation Count: 5

This article describes a method for analyzing, modeling, and simulating a two-level arrival counting process. This method is particularly appropriate when the number of independent processes is large, as is the case in our motivating application which ...

**Keywords:** clustering, data replication, file access patterns, file system, input model replication, synthetic traces, trace driven simulation

**12** [Optimistic methods for concurrency control in distributed database systems](#)


Gunter Schlageter

September 1981 **VLDB '1981: Proceedings of the seventh international conference on Very Large Data Bases - Volume 7**, Volume 7**Publisher:** VLDB EndowmentAdditional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

Recently, methods for concurrency control have been proposed which were called "optimistic". These methods do not consider access conflicts when they occur; instead, transaction always proceeds, and at its end a check is performed whether a conflict ...

**13** [The impact of object technology on commercial transaction processing](#)

Edward E. Cobb

August 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 3**Publisher:** Springer-Verlag New York, Inc.Full text available:  Pdf (649.17 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 81, Citation Count: 3

Businesses today are searching for information solutions that enable them to compete the global marketplace. To minimize risk, these solutions must build on existing investments, permit the best technology to be applied to the problem, and be manageable. ...


**Keywords:** Objects, Workflow, transaction processing

14 [Xunet 2: lessons from an early wide-area ATM testbed](#)

Charles R. Kalmanek, Srinivasan Keshav, William T. Marshall, Samuel P. Morgan, Robert J. Restrick, III

February 1997 **IEEE/ ACM Transactions on Networking (TON)** , Volume 5 Issue 1

**Publisher:** IEEE Press

Full text available:  [Pdf](#) (231.69 KB) **Additional Information:** [full citation](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 23, Citation Count: 0


**Keywords:** asynchronous transfer mode, available bit rate, constant bit rate, variable rate

15 [Using the transformational approach to build a safe and generic data synchronizer](#)

Pascal Molli, Gérald Oster, Haia Skaf-Molli, Abdessamad Imine

November 2003 **GROUP '03: Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (184.01 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 42, Citation Count: 10

Reconciling divergent data is an important issue in concurrent engineering, mobile computing and software configuration management. Currently, a lot of synchronizers combine merge tools perform reconciliations. However, they do not define what is the correctness ...


**Keywords:** operational transformation, synchronization

16 [The IBM data warehouse architecture](#)

Charles Bontempo, George Zagelow

September 1998 **Communications of the ACM** , Volume 41 Issue 9

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (817.29 KB) **Additional Information:** [full citation](#), [references](#), [cited by](#), [index terms](#), [review](#)


**Bibliometrics:** Downloads (6 Weeks): 35, Downloads (12 Months): 398, Citation Count: 5

17 [Efficient synchronization for mobile XML data](#)

Franky Lam, Nicole Lam, Raymond Wong

November 2002 **CIKM '02: Proceedings of the eleventh international conference on Information and knowledge management**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (116.31 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 66, Citation Count: 3

Many handheld applications receive data from a primary database server and operate in an intermittently connected environment these days. They maintain data consistency with data sources through synchronization. In certain applications such as sales force ...

**Keywords:** XML, information dissemination, information subscription, path containme

18 [A new approach to developing and implementing eager database replication protocols](#)



Bettina Kemme, Gustavo Alonso

September 2000 **Transactions on Database Systems (TODS)**, Volume 25 Issue 3

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf](#) (449.43 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [ind terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 25, Downloads (12 Months): 226, Citation Count: 24

Database replication is traditionally seen as a way to increase the availability and performance of distributed databases. Although a large number of protocols providing consistency and fault-tolerance have been proposed, few of these ideas have ...

**Keywords:** database replication, fault-tolerance, group communication, isolation level one-copy-serializability, replica control, total error multicast

19 [ATLAS: a scalable network framework for distributed virtual environments](#)



Dongman Lee, Mingyu Lim, Seunghyun Han

September 2002 **CVE '02: Proceedings of the 4th international conference on Collaborative virtual environments**

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf](#) (129.14 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [ind terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 48, Citation Count: 9

A distributed virtual environment (DVE) is a software system that allows users on a network to interact with each other by sharing a common view of their states. As users are geographically distributed over large networks like the Internet and the number ...

**Keywords:** DVE, network framework, scalability

20 [Zippering: managing intermittent connectivity in DIANA](#)

Arthur M. Keller, Owen Densmore, Wei Huang, Behfar Razavi

December 1997 **Mobile Networks and Applications**, Volume 2 Issue 4

**Publisher:** Kluwer Academic Publishers




Full text available: [Pdf](#) (412.52 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [ind terms](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 8, Citation Count: 3

This paper describes an approach for handling intermittent connectivity between mobile clients and network-resident applications, which we call zippering. When the client connects with the application, communication between the client and the application ..

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